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INDEX GENERATING METHOD

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ABSTRACT
PURPOSE: To shorten time consumed for the generation processing of an index
by performing the OR operation of the index value of a record for the index
of a relation to be operated after shifting it by proper number of bits,
and obtaining the index concerning the operated result at the tie of the
operation.
CONSTITUTION: It is assumed that a *query* to retrieve all taples whose age
attribute is 17 and sex distinction attribute is female is issued. For
generating a *query* *mask* , an age and a sex distinction-binary value
conversion procedure is applied to the age (e.g., 17) and the sex
distinction (e.g., female), and the binary values 1001 and 10 are obtained.
Besides, a person's name attribute is assumed to be 0000 if it is not
designated, and these three binary values are shifted by one bit, and the
OR operation is executed. Regarding all positions, in which the bits of the
query *mask* 13 obtained by such a way are set, the index records 8, 10,
in which all the bits are set at the same bit positions are selected out of
the index records 7-12 and the taples 2, 5 are extracted. The extracted
contents are checked and the taple 2, the age attribute which is 17 and the
sex distinction attribute which is female is extracted and the retrieval is
finished.